



Ddev Plastiks Industries Limited

TECHNICAL DATA SHEET

KI – ARV (125): Oil resistance, Low Temperature PVC Cable Insulation Compound

Description:

KI – ARV (125) is a PVC compound specially designed for insulation in road vehicle cables where the nominal system voltage is > (60 V d.c. or 25 V a.c.) to ≤ (600 V d.c. or 600 V a.c.).

KI – ARV (125) is formulated with a high-quality suspension grade PVC resin with heat resistant plasticizers, superior quality stabilizers and other processing additives.

Specification:

- ISO 6722: Class C / T 3

Colour: Natural / As per requirement

Typical Properties:

Property	Unit	Test Method	Typical Value
Application Temp	⁰ C		(+) 125 to (-) 40
Sp. Gravity @27 ⁰ C		ASTM - D – 792	1.36 ± 0.03
Hardness @27 ⁰ C	Shore A	ASTM - D 2240	94 ± 2
Thermal Stability@200 ⁰ C	Minutes	IS : 10810 (60)	≥ 300
Tensile Strength (TS) @27 ⁰ C	MPa	IS : 10810 (7)	≥ 17.0
Elongation at Break (E.B) @27 ⁰ C	%	IS : 10810 (7)	≥ 225
Ageing Test	Temperature, ⁰ C	ISO 6722	150
	Duration, Hrs	ISO 6722	240
Variation of T.S	%	IS : 10810 (11)	≤ ± 25.0
Variation of E.B	%	IS : 10810 (11)	≤ ± 25.0
Volume Resistivity @27 ⁰ C	Ohm - cm	IS : 3396 / 79	≥ 1x10 ¹⁴

After oil ageing @ 70⁰C / 4 hrs – Retention of T.S. & E.B.= ± 85%

Passes Cold Bend & Cold Impact @-40⁰C

* Test specimen made after milling the granules and the compression molded at 160 °C for 10 min with 200kg / cm² hydraulic pressure.

Above Values are Typical value of Compound and customer need to check before accepting the TDS.

Processing:

KI – ARV (125) can be processed on any good extruder designed for PVC cable extrusion at temperature in the range of 140⁰C- 160⁰C.This is the guideline temperature range; actual temperature should be optimized by the user depending upon the other processing variables. The screw must have a good homogenizing capacity. Preheating of granules at 60+/-5⁰C is always advisable for better processing.

Packaging:

KI – ARV (125) is available in the form of free-flowing pellets and supplied in bags with sealed double layer PE liner to prevent moisture. The finished bag weight is either 25 kg woven sacks bag or in 1000kg jumbo bags.

Storage:

Material should be store in moisture free cool & dry place and should be consumed within three months from the date of manufacturing.

Safety:

KI – ARV (125) is not classified as a dangerous product group.

The information and recommendations contained in this bulletin are, to the best of our knowledge, accurate and reliable but no guarantee of their accuracy is made. These are all the typical values only and subject to change without prior intimation. The product is sold upon condition that purchaser should make their own tests to determine the suitability of such product of their particular purpose and purchasers assume all risks and liability for the results of the use of the product.

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